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Applicant : Stephen J. Doxsey Art Unit : 1645  
Serial No. : 10/663,433 Examiner : Unknown  
Filed : September 15, 2003  
Title : CENTROSOME PROTEINS AND USES THEREOF

Commissioner for Patents  
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## INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449.

This statement is being filed before the receipt of a first Office action on the merits.

Please apply any charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No. 07917-162001.

Respectfully submitted,

Date: July 13, 2004

  
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Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 07917-162001	Application No. 10/663,433
<b>Information Disclosure Statement</b> <b>by Applicant</b> JUL 15 2004 (37 CFR §1.98(e))		Applicant Stephen J. Doxsey Filing Date September 15, 2003			
				Filing Date September 15, 2003	Group Art Unit 1645

<b>U.S. Patent Documents</b>							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate

<b>Foreign Patent Documents or Published Foreign Patent Applications</b>							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes

<b>Other Documents (include Author, Title, Date, and Place of Publication)</b>		
Examiner Initial	Desig. ID	Document
	A1	Adames et al., "The surveillance mechanism of the spindle position checkpoint in yeast," <i>J. Cell. Biol.</i> 153, 159-68 (2001)
	A2	Andreassen et al., "Tetraploid State Induces p53-dependent Arrest of Nontransformed Mammalian Cells in G1," <i>Mol. Biol. Cell</i> 12, 1315-28 (2001)
	A3	Balasubramani et al., "Isolation and characterization of new fission yeast cytokinesis mutants," <i>Genetics</i> 149, 1265-75 (1998)
	A4	Bardin and Amon, "Men and sin: what's the difference?," <i>Nat. Rev. Mol. Cell. Biol.</i> 2, 815-26 (2001)
	A5	Bardin et al., "A mechanism for coupling exit from mitosis to partitioning of the nucleus," <i>Cell</i> 102, 21-31 (2000)
	A6	Bloecher et al., "Anaphase spindle position is monitored by the BUB2 checkpoint," <i>Nat. Cell. Biol.</i> 2, 556-8 (2000)
	A7	Bobiniec et al., "Centriole disassembly in vivo and its effect on centrosome structure and function in vertebrate cells," <i>J. Cell. Biol.</i> 143, 1575-1589 (1998).
	A8	Chang and Gould, "Sid4p is required to localize components of the septation initiation pathway to the spindle pole body in fission yeast," <i>Proc. Natl. Acad. Sci. USA</i> 97, 5249-54 (2000).
	A9	Cuif et al., "Characterization of GPCenA, a GTPase activating protein for Rab6, part of which associates with the centrosome," <i>EMBO J.</i> 18, 1772-82 (1999)
	A10	Dictenberg et al., "Pericentrin and gamma tubulin form a protein complex and are organized into a novel lattice at the centrosome," <i>J. Cell. Biol.</i> 141, 163-174 (1998)
	A11	Diviani et al., "Pericentrin anchors protein kinase A at the centrosome through a newly identified RII-binding domain," <i>Curr. Biol.</i> 10, 417-20 (2000)
	A12	Doxsey, S. J. "Re-evaluating centrosome function," <i>Nature Reviews in Molecular Biology</i> 2 688-699 (2000)
	A13	Doxsey et al., "Pericentrin, a highly conserved protein of centrosomes involved in microtubule organization," <i>Cell</i> 76, 639-650 (1994)
	A14	Fankhauser et al., "The <i>S. pombe</i> cdc15 gene is a key element in the reorganization of F- actin at mitosis," <i>Cell</i> 82, 435-44 (1995)
	A15	Flory et al., "Identification of a human centrosomal calmodulin-binding protein that shares homology with pericentrin," <i>Proc. Natl. Acad. Sci. USA</i> 97, 5919-23 (2000)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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<b>Other Documents (include Author, Title, Date, and Place of Publication)</b>		
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	A16	Gergely et al., "The TACC domain identifies a family of centrosomal proteins that can interact with microtubules," Proc. Natl. Acad. Sci. USA 97, 14352-7 (2000)
	A17	Gillingham and Munro, "The PACT domain, a conserved centrosomal targeting motif in the coiled-coil proteins AKAP450 and pericentrin," EMBO Rep. 1, 524-9 (2000)
	A18	Gruneberg et al., "Nud1p links astral microtubule organization and the control of exit from mitosis," Embo. J. 19, 6475-88 (2000)
	A19	Guasch et al., "FGFR1 is fused to the centrosome-associated protein CEP110 in the 8p12 stem cell myeloproliferative disorder with t(8;9)(p12;q33), Blood 95, 1788-96 (2000)
	A20	Guertin et al., "Cytokinesis in eukaryotes," Microbiol. Mol. Biol. Rev. 66, 155-78 (2002)
	A21	Hinchcliffe et al, "Requirement of a centrosomal activity for cell cycle progression through G1 into S phase," Science 291, 1547-50 (2001)
	A22	Hirota et al., "Zyxin, a regulator of actin filament assembly, targets the mitotic apparatus by interacting with h-warts/LATS1 tumor suppressor," J. Cell. Biol. 149, 1073-86 (2000)
	A23	Khodjakov, and Rieder, "Centrosomes enhance the fidelity of cytokinesis in vertebrates and are required for cell cycle progression," J. Cell. Biol. 153, 237-42 (2001)
	A24	Krapp et al, "S. pombe cdc11p, together with sid4p, provides an anchor for septation initiation network proteins on the spindle pole body," Curr. Biol. 11, 1559-68 (2001).
	A25	Le Goff et al., "Controlling septation in fission yeast: finding the middle, and timing it right," Curr. Genet. 35, 571-84 (1999)
	A26	Le Goff et al., "Analysis of the cps1 gene provides evidence for a septation checkpoint in Schizosaccharomyces pombe," Mol. Gen. Genet. 262, 163-72 (1999b)
	A27	Lee et al., "Msps/XMAP215 interacts with the centrosomal protein D-TACC to regulate microtubule behaviour," Nat. Cell. Biol. 3, 643-9 (1999b)
	A28	Liu et al., "A checkpoint that monitors cytokinesis in Schizosaccharomyces pombe," J. Cell. Sci. 113, 1223-30 (2000)
	A29	Luca and Winey, "MOB1, an essential yeast gene required for completion of mitosis and maintenance of ploidy," Mol. Biol. Cell 9, 29-46 (1998)
	A30	Mailand et al., "Deregulated human Cdc14A phosphatase disrupts centrosome separation and chromosome segregation," Nat. Cell. Biol. 4, 318-22 (2002)
	A31	Matuliene and Kuriyama, "Kinesin-like protein CHO1 is required for the formation of midbody matrix and the completion of cytokinesis in mammalian cells," Mol. Biol. Cell 13(6):1832-45 (2002)
	A32	McCollum and Gould, "Timing is everything: regulation of mitotic exit and cytokinesis by the MEN and SIN," Trends Cell. Biol. 11, 89-95 (2001)
	A33	Meraldi et al., "Aurora-A overexpression reveals tetraploidization as a major route to centrosome amplification in p53-/- cells," Embo. J. 21, 483-92 (2002)
	A34	Mogensen et al., "Centrosomal deployment of gamma-tubulin and pericentrin: Evidence for a microtubule-nucleating domain and a munis-end docking domain in certain mouse epithelial cells," Cell. Motil. Cytoskel. 36, 276-290 (1997)
	A35	Mogensen et al., "Microtubule minus-end anchorage at centrosomal and non-centrosomal sites: the role of ninein," J. Cell. Sci. 113, 3013-23 (2000)
	A36	Molinari et al., "PRC1 is a microtubule binding and bundling protein essential to maintain the mitotic spindle midzone," J. Cell. Biol. 157:1175-1186 (2002)

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	A38	Pereira and Schiebel, "The role of the yeast spindle pole body and the mammalian centrosome in regulating late mitotic events," Curr. Opin. Cell. Biol. 13, 762-9 (2001)
	A39	Piel et al., "The respective contributions of the mother and daughter centrioles to centrosome activity and behavior in vertebrate cells," J. Cell. Biol. 149(2):317-30 (2000)
	A40	Purohit et al., "Direct interaction of pericentrin with cytoplasmic dynein light intermediate chain contributes to mitotic spindle organization," J. Cell. Biol. 147, 481-491 (1999)
	A41	Scheffner et al., "The E6 oncoprotein encoded by human papillomavirus types 16 and 18 promotes the degradation of p53," Cell 63, 1129-36 (1990)
	A42	Tomlin et al., "The spindle pole body protein cdc11p links sid4p to the fission yeast septation initiation network," Mol. Biol. Cell 13, 1203-14 (2002)
	A43	Trautmann et al., "Fission yeast Clp1p phosphatase regulates G2/M transition and coordination of cytokinesis with cell cycle progression," Curr. Biol. 11, 931-40 (2001)
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